SUPPORTING DOCUMENT FOR QUANTITATIVE METRIC: 7.1.3

All the supporting documents are available on the college website under the given URL link

https://www.coeb.ac.in/naac/ssr/criteria7.1.3.pdf

SUBMITTED TO NAAC BY



College Of Engineering Bhubaneswar (COEB)





Under the aegis of the Nabadigant Educational Trust

80 201		822 14	
Ref No.	DECDONCE	Date:	
	RESPONSE		

7.1.3: Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

- 1. Green audit / Environment audit
- 2. Energy audit
- 3. Clean and green campus initiatives
- 4. Beyond the campus environmental promotion activities

A. All of the above

College of Engineering Bhubaneswar Principal

College Of Engineering Bhubaneswar (COEB)



PRINCIPAL
College of Engineering Bhubaneswar

Environmental Policy

Scope of the Policy:

With the help of the Green Campus and Environment Policy, innovative new cocurricular and extracurricular activities will be developed that will motivate faculty and staff to take the initiative in bringing about positive change. These programmes demand a thorough examination of all administrative and infrastructure tasks from the perspectives of energy efficiency, environmental sustainability, and sustainability.

The focus areas of this policy are:

- → Clean Campus Initiatives
- → Landscaping Initiatives
- → Clean Air Initiatives
- → Infrastructure
 - ♦ Solar Power Plant
 - ♦ Installation of Energy Efficiency Equipment
 - ♦ Water Conservation through Rainwater Harvesting System
- → Waste Management processes
 - ◆ Solid Waste Management
 - ◆ Liquid Waste Management
 - ◆ E-Waste Management
- → Awareness Initiatives
- → Environment-centric Student Societies and Department Activities
- → Green Audit
- → Energy Audit
- → Plastic-Free Campus

Objectives of the Policy:

- 1. To protect and conserve ecological systems and resources within the campus
- 2. To ensure judicious use of environmental resources to meet the needs and aspirations of the present and future generations.
- 3. To integrate environmental concerns into policies, plans and programmes for social development and outreach activities
- 4. To work with all stakeholders and the local community to raise awareness and seek the adoption of environmental good practice and the reduction of any adverse effects on the environment.
- 5. To continuously improve our contribution to climate protection and adaptation to climate change and to the conservation of global resources
- 6. To continuously improve the efficient use of all resources, including energy and water, and to reduce consumption and the amount of waste produced, recovering and recycling waste where possible.
- 7. To make the campus plastic free.
- 8. To conduct environmental and energy audits from time to time
- 9. To minimize the use of paper in administration through having policy for E-governance.

Clean Campus Initiatives

College of Engineering Bhubaneswar-COEB pledged to actively coordinate cleanliness activities in the college and beyond the campus in accordance with the vision of Swachh Bharat Mission. It commits to continue with this Programme. The broad vision is as follows:

Generating mass awareness on cleanliness and hygiene amongst students and staff members by holding regular cleanliness drives. The idea is to motivate them to contribute in a proactive manner.

- 1. Activities under 'Swachh Bharat Mission will be a key component of all the community work being done by NSS and Green Warrior volunteers of the college.
- 2. Staff Members will be encouraged to participate in the cleanliness drive in the college campus.
- **3.** Remove all kinds of waste material like broken furniture, unusable equipment etc.
- **4.** Administer of the pledge by students and staff members to maintain cleanliness of the college campus and its surrounding areas on an annual basis.
- **5.** Conduct workshops on the 3Rs: Reduce, reusing and recycling of waste.
- **6.** Commit to manage waste and maintain clean campus especially during college events.

Landscaping Initiatives

It is a vital part of the life of a campus, providing space for study, play, outdoor events, relaxation and aesthetic appreciation. Green campus landscapes also manage runoff, help recharge groundwater, and clean and cool the air on campus. The landscape serves as a visual representation of the campus community's commitment to sustainability. As campus landscapes are so visible and accessible, landscaping initiatives are a great way to build awareness around the environment.

There are more than 150 trees and more than 500 shrubs on campus along with 1 acre of grass cover. The landscape of trees and plants provide the 1000+ students and staff with clean and cool air and is a soothing environment.

The diverse green cover of College of Engineering Bhubaneswar-COEB is also home to a number of animals and rare birds across at least 24 species, creating a campus rich in biodiversity. The college commits to enriching this healthy habitat and maintaining the symbiotic relation of the institution with nature by

- Organizing annual tree plantation drives
- Encouraging student clubs to hold tree planting events

Clean Air Initiatives

We encourage our students and staff to use public transportation. The entry of automobiles inside the campus is restricted to discourage the use of private vehicles. Our campus is also located rural part of Bengaluru. For this reason, we feel responsible to maintain our green cover. The abundant natural landscape cleans the air on campus.

Infrastructural Initiatives

Renewable Sources of Energy

College of Engineering Bhubaneswar-COEB is dedicated to minimize and sustainably manage its use of electricity. The college believes in reducing the consumption of electricity produced by non-renewable resources by switching to clean energy sources like solar energy for purposes like lighting the campus. Hence solar panels were installed on top roof of the college building.

Energy Saving and Energy Efficient Equipment

We commit to install environment-friendly electrical appliances that save energy and reduce wasteful inefficiencies. The college believes in using cleaner energy such as LED lighting.

Water Conservation through Rainwater Harvesting System

College of Engineering Bhubaneswar-COEB has committed itself to the effort to replenish the groundwater table by practicing rainwater harvesting. This practice helps in the replenishment and recharge of the groundwater.

Waste Management Process

College of Engineering Bhubaneswar-COEB strives to have a minimal impact on the environment and is dedicated to reduce and manage the waste generated by the college campus. The following specific procedures will be undertaken to ensure College of Engineering Bhubaneswar-COEB contribution in protecting the environment.

Solid Waste Management

With its aim to provide holistic education that also has a positive impact on the environment, the college will adopt practices that will mitigate the generation, and manage solid waste through the following methods

- 1. Systematically engage with the 3Rs of environment friendliness (Reduce, Reuse and Recycle).
- 2. Collect paper waste produced on campus and collaborate with scrap dealers for recycling.
- **3.** Reduce solid waste by developing a technology-centric teaching and administrative model.
- **4.** Reduce use of paper by supporting digitization of attendance and internal assessment records
- **5.** Reduce requirement of printed books by updating the e-books and e-journals collection of the college library.
- **6.** Take initiatives to spread awareness amongst students about
- ♦ Food wastage and ways of minimizing it
- ♦ Minimizing the use of packaged food
- ♦ The habit of reusing and recycling non-biodegradable products
- Organizing workshops for students on solid waste management.

Liquid Waste Management

- ♦ Maintain leak proof water fixtures
- ♦ Minimize the use of water by constructing more Indian style toilets instead of western style toilets.
- ♦ Continued employment of a caretaker to take immediate steps to stop any water leakage through taps, pipes, tanks, and toilet flush etc.
- ♦ Reuse of wastewater generated by the Reverse Osmosis (RO) system in washrooms.

E-Waste Management

College of Engineering Bhubaneswar-COEB ensures that its usage of technology

and generation of e-waste does not impact the environment. For this purpose, the

college plans to strive towards:

1. More provisions for the disposal of the institutional e-waste.

2. Awareness amongst students about reduction of e-waste and environment

friendly disposal practices for e-waste.

3. Encouraging department and society level activities pertaining to e-waste

management

Awareness Initiatives.

Outreach and education are of utmost importance so that all members of the campus

community may value the objectives of the policy and aid in its implementation.

This is why College of Engineering Bhubaneswar-COEB supports and encourages

awareness campaigns, seminars, workshops, conferences and other interactive

sessions to facilitate effective implementation of the Green Campus, Energy and

Environment policies.

Environment-centric Student Clubs and Department Activities

College of Engineering Bhubaneswar-COEB encourages all the departments and

specific student societies like Green warriors, NSS, and others to organize events,

competitions and training sessions that will bring about positive environmental

changes at the grass root level. The college supports departments and student clubs

in molding the students into active agents of environment protection and

conservation.

Green Warriors

Institutional changes towards sustainability and eco-friendly practices have

percolated down to the students which have led more and more students to join

Green Warriors. Making the club a compulsory one will provide it a bigger platform

to broadcast the institution's environmental values to raise awareness. This will aid

the green initiatives and practices that are a part of this policy to grow exponentially.

Green Audit

The college aims to regularly conduct a Green Audit of our college campus to assess

our strengths and weaknesses to further our goals of long-term sustainability. A

green audit is a useful tool to determine how and where most energy or water or

resources are being used. The college can then consider how to implement changes

and make savings. It can determine the type and volume of waste. Recycling projects

or waste minimization plans can be adopted. It will create health consciousness and

promote environmental values and ethics. It provides a better understanding of the

impact of eco-friendly practices on campus. Green auditing will promote financial

savings through reduction of resource use. It is imperative that the college evaluate

its own contributions toward a sustainable future.

Energy Audit

An Energy Audit to be conducted as and when required to further reduce its carbon

footprint. The importance of reducing energy consumption cannot be overstated.

The energy audit, with its specialized tools will identify wastage of energy. Such an

inspection often reveals several different flaws which cause a loss of significant

amounts of energy which the college will not be able to detect. These flaws often

have easy and affordable solutions and provide significant savings.

Plastic-Free Campus

College of Engineering Bhubaneswar-COEB has been observing most of its duties in terms of solid waste management since its inception. In view of the Government of India's resolution to ban all single use plastics due to the hazardous impact of plastic use and pollution, the college administration strictly bans the use of single use plastics in its premise to make it a 'Plastic Free Campus'.



Certificate of Registration

This is to Certify that Environmental Management System of

COLLEGE OF ENGINEERING BHUBANESWAR (COEB) (AN UNIT OF NABADIGANT EDUCATIONAL TRUST)

PLOT NO.1,INFOCITY ROAD, PATIA, BHUBANESWAR, ODISHA-751024, (INDIA).

has been assessed and found to conform to the requirements of

ISO 14001:2015

for the following scope:

PROVIDES EDUCATION LEADING TO: DIPLOMA IN CIVIL ENGINEERING, ELECTRICAL ENGINEERING, ELECTRONICS AND TELECOMMUNIC ATION ENGINEERING, MECHANICAL ENGINEERING, UNDER GRADUATE EDUCATION IN CIVIL ENGINEERING, COMPUTER SCIENCE & ENGINEERING, ELECTRICAL ENGINEERING, ELECTRONICS AND TELECOMMUNIC ATIONS ENGINEERING, MECHANICAL ENGINEERING, POST GRADUATE IN MBA, MASTERS IN COMPUTER APPLICATIONS, SOIL MECHANICS AND FOUNDATION ENGINEERING, STRUCTURAL AND FOUNDATION ENGINEERING.

IAF CODE: 37

Certificate No : 24EEMF36

Initial Registration Date : 20/02/2024 Issuance Date : 20/02/2024

Date of Expiry : 19/02/2027

1st Surv. Due : 20/01/2025 2nd Surv. Due : 20/01/2026

Director









Assurance Quality Certification LLC

Head Office: Sharjah Media City, SHAMS, Sharjah, UAE. e-mail: info@aqcworld.com,

Key Location: A-60, Sector - 2, Noida, Uttar Pradesh, 201301, India.

"Validity of the Certificate is subject to successful completion of surveillance audit on or before of due date. (in case surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawal).

Certificate Verification: Please Re-check the validity of certificate at http://www.aqcworld.com/activeclients.asyx or www.aqcworld.com at Active Clients.

Certificate is the property of Assurance Quality Certification LLC and shall be returned immediately when demanded

Certificate of Registration

This is to Certify that Energy Management System of

COLLEGE OF ENGINEERING BHUBANESWAR (COEB) (AN UNIT OF NABADIGANT EDUCATIONAL TRUST)

PLOT NO.1,INFOCITY ROAD, PATIA, BHUBANESWAR, ODISHA-751024, (INDIA).

has been assessed and found to conform to the requirements of

ISO 50001:2018

for the following scope :

PROVIDES EDUCATION LEADING TO: DIPLOMA IN CIVIL ENGINEERING, ELECTRICAL ENGINEERING, ELECTRONICS AND TELECOMMUNIC ATION ENGINEERING, MECHANICAL ENGINEERING, UNDER GRADUATE EDUCATION IN CIVIL ENGINEERING, COMPUTER SCIENCE & ENGINEERING, ELECTRICAL ENGINEERING, ELECTRONICS AND TELECOMMUNIC ATIONS ENGINEERING, MECHANICAL ENGINEERING, POST GRADUATE IN MBA, MASTERS IN COMPUTER APPLICATIONS, SOIL MECHANICS AND FOUNDATION ENGINEERING, STRUCTURAL AND FOUNDATION ENGINEERING.

Certificate No : 24EEnME45

Initial Registration Date : 20/02/2024 Issuance Date : 20/02/2024

Date of Expiry : 19/02/2027

1st Surv. Due : 20/01/2025 2nd Surv. Due : 20/01/2026

1. Contr

Director









Assurance Quality Certification LLC

Head Office: Sharjah Media City, SHAMS, Sharjah, UAE. e-mail: info@aqcworld.com, Key Location: A-60, Sector - 2, Noida, Uttar Pradesh, 201301, India.

*Validity of the Certificate is subject to successful completion of surveillance audit on or before of due date. (in ease surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawal).

Certificate Verification: Please Re-check the validity of certificate at http://www.aqcworld.com/activeclients.asyx or www.aqcworld.com at Active Clients.

Certificate is the property of Assurance Quality Certification LLC and shall be returned immediately when demanded



Under the aegis of the Nabadiganta Educational Trust

GREEN CAMPUS INITIATIVES:

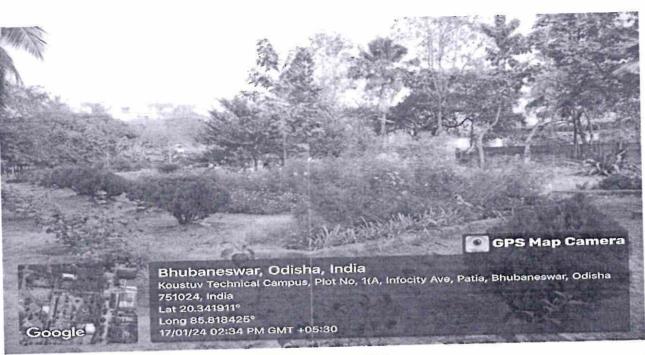
The curriculum incorporates topics on environmental sustainability and associated issues. to raise students awareness of environmental and sustainability concerns. Through the Environment Club and the departments, events including World Environment Day observation, seminars, workshops, awareness campaigns, outreach activities, and guest lectures are planned for the students. To become carbon neutral and to cover the institutes' most exposed locations, tree plantings are implemented. The campus's interior temperature is lowered and fresh, clean air is provided by the tree planting. The campus is a good place to walk. The personnel and students do not use plastic or polythene.

Our institution is committed to spearheading impactful green initiatives that align with our dedication to environmental sustainability. Recognizing the pressing need to address climate change and promote eco-friendly practices, we have implemented a range of initiatives to reduce our carbon footprint and foster a culture of environmental responsibility. Our efforts include energy-efficient infrastructure upgrades, waste reduction programs, and the incorporation of renewable energy sources into our facilities. Additionally, we actively promote conservation and eco-awareness through educational campaigns, workshops, and events. By embracing green technologies and practices, we aim to not only minimize our environmental impact but also inspire our community to adopt sustainable lifestyles, contributing to a healthier and more resilient planet for future generations.

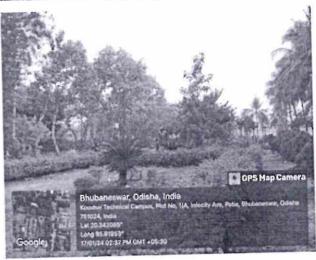
Plot No-1(A) CNI Complex, Patia, Bhubaneswar-751024, Odisha, India



Under the aegis of the Nabadiganta Educational Trust







(GREEN CAMPUS INITIATIVES in the college campus)

PRINCIPAL PRINCIPAL College of Engineering Bhubaneswar



Under the aegis of the Nabadiganta Educational Trust



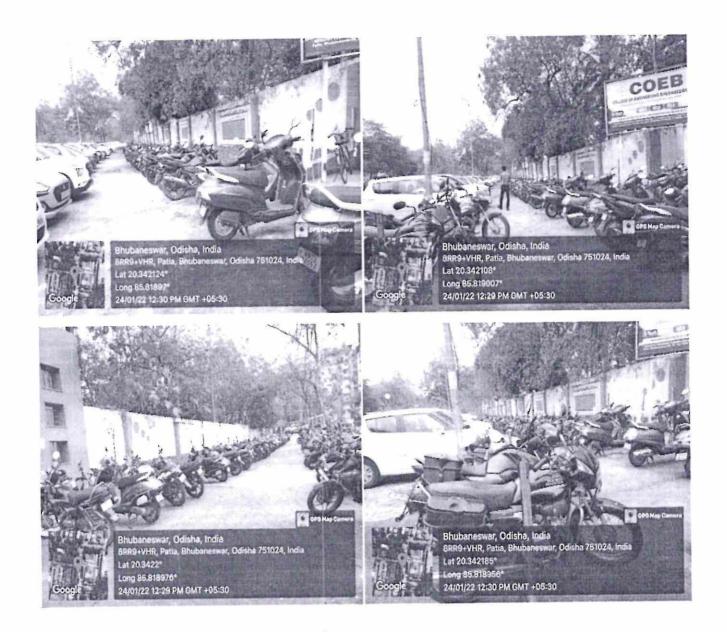


(GREEN CAMPUS INITIATIVES in the college campus)





Under the aegis of the Nabadiganta Educational Trust



(Vehicle restriction into the college premises to maintain an eco-friendly campus and more pedestrian-friendly place)



Under the aegis of the Nabadiganta Educational Trust



(Plantation drive in college premises on the occasion of world environment day)

PRINCIPAL PRINCIPAL College of Engineering Bhubaneswar



Under the aegis of the Nabadigant Educational Trust

Ref No. COEB | ACA) 2018 | 391 (I)

Date: 25/09/18

NOTICE

Sub: Tree Plantation Program on the occasion of Gandhi Jayanti.

This is to bring to your kind notice that the NSS Club of our college is going to organize a tree plantation drive at N-5 Area, Nayapalli, Bhubaneswar on the occasion of Gandhi Jayanti on 2nd Oct 2018.

All the students and staff are requested to join this program to make it a grand success.

Coordinators:

- 1. Dr. Minati Das(MBA)
- 2. Prof. Anshuman Nayak(EE)

Program Schedule:

Date: 2nd Oct 2018.

Venue: N-5 Area, Nayapalli, Bhubaneswar

Timing: 9:00AM onwards.

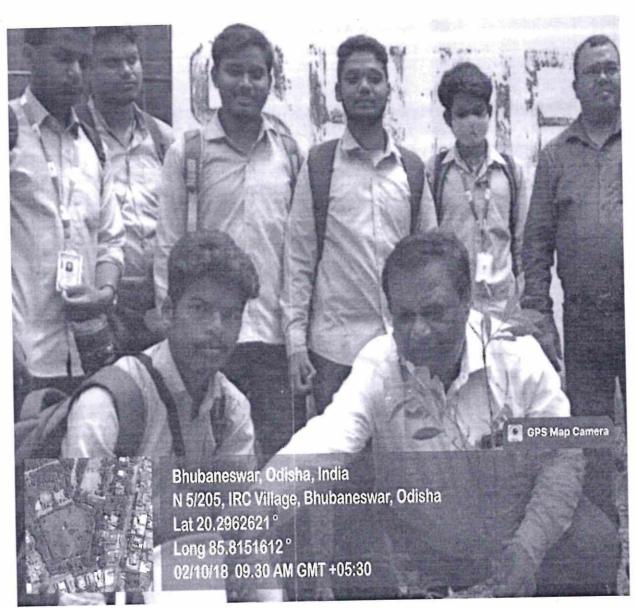
Copy to:

1. All HoDs

2. All Notice Boards(including Hostels)

3. Security Office

PRINCIPAL



Plantation program on the occasion of Gandhi Jayanti on 2nd Oct. 2018.

PRINCIPAL PRINCIPAL College of Engineering Bhubaneswar



Under the aegis of the Nabadigant Educational Trust

Ref No. COES/ACA/2019/456(1)

Date: 24/06/19

Sub: Tree Plantation Drive on the occasion of Van Mahotsav.

This is to bring to your kind notice that the NSS Club of our college is going to organize a tree plantation drive at Maa Tarini Temple, Sailashree Vihar, Bhubaneswar on the occasion of Van Mahotsav on 1st July 2019.

All the students and staff are requested to join this program to make it a grand success.

Coordinators:

- 1. Dr. Tapas Chand(MECH)
- 2. Prof. Snehasis Dey(ETC)

Program Schedule:

Date: 1st July 2019.

Venue: Maa Tarini Temple, Sailashree Vihar, Bhubaneswar

Timing: 09:00 AM onwards.

Copy to:

- 1. All HoDs
- 2. All Notice Boards(including Hostels)

3. Security Office

Principal

PRINCIPAL
College of Engineering Bhubaneswar



Tree Plantation Drive on the occasion of Van Mahotsav on 1st July 2019.



Under the aegis of the Nabadigant Educational Trust

Ref No. LOE B JACA/2019 / 476 (I)

Date: 22/09/19

NOTICE

Sub: Tree Plantation Program on the occasion of Gandhi Jayanti.

This is to bring to your kind notice that the NSS Club of our college is going to organize a tree plantation drive at **Phase-1 park**, **Kanan Vihar**, **Patia**, **Bhubaneswar** on the occasion of **Gandhi Jayanti** on 2nd Oct 2019.

All the students and staff are requested to join this program to make it a grand success.

Coordinators:

- 1. Dr. Subhakant Nayak (MECH)
- 1. Prof. Pradipta Nayak (EE)

Program Schedule:

Date: 2nd Oct 2019.

Venue: Phase-1 park, Kanan Vihar, Patia, Bhubaneswar

Timing: 9:00AM onwards.

Copy to:

1. All HoDs

2. All Notice Boards(including Hostels)

3. Security Office

Principal

PRINCIPAL CONTROL OF STREET

College of Engineering Bhubaneswar



Tree plantation program on the occasion of Gandhi Jayanti on 2nd Oct. 2019.



Under the aegis of the Nabadigant Educational Trust

Ref No. COES Acapo 4/634(I)

Date: 29/09/24

NOTICE

Sub: Tree Plantation Program on the occasion of Gandhi Jayanti.

This is to bring to your kind notice that the NSS Club of our college is going to organize a tree plantation drive at Lane-2, Niladri Vihar, Bhubaneswar on the occasion of Gandhi Jayanti on 2nd Oct 2021.

All the students and staff are requested to join this program to make it a grand success.

Coordinators:

- 1. Dr. Subhakant Nayak (MECH)
- 1. Prof. Pradipta Nayak (EE)

Program Schedule:

Date: 2nd Oct 2021.

Venue: Lane-2, Niladri Vihar, Bhubaneswar

Timing: 9:00AM onwards.

Copy to:

1. All HoDs

2. All Notice Boards(including Hostels)

3. Security Office

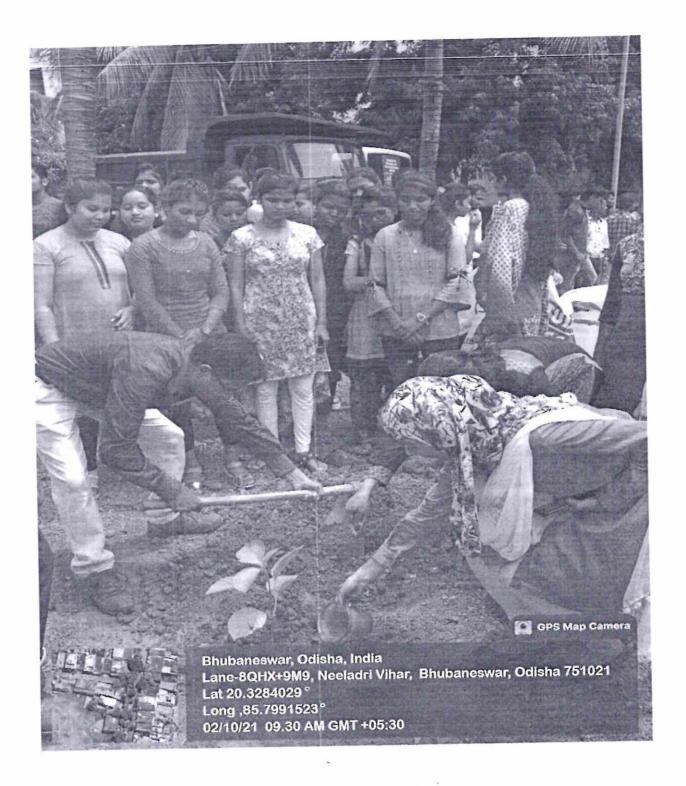
Principal

PRINCIPAL

College of Engineering Bhubaneswar

College of Frainces

baneswar



Tree plantation program on the occasion of Gandhi Jayanti on 2nd Oct. 2021.



Under the aegis of the Nabadigant Educational Trust

Ref No. CO ES PART 2022 73(I)

Date: 21/06/22

NOTICE

Sub: Tree Plantation Program on the occasion of Van Mahotsav.

This is to bring to your kind notice about the upcoming tree plantation drive organized by the NSS Club of our college. On the occasion of **Van Mahotsav**, there will be a tree plantation program at **Sri Sri Maa Ananda Ashram**, **Damana**, **Bhubaneswar** on July 01, 2022.

All the students and staff are requested to join this program to make it a grand success.

Coordinators:

- 1. Dr. Subhakant Nayak (MECH)
- 2. Prof. Debarpita Roul (EE)

Program Schedule:

Date: 1st July 2022.

Venue: Sri Sri Maa Ananda Ashram, Damana, Bhubaneswar.

Timing: 10:00 AM

onwards.

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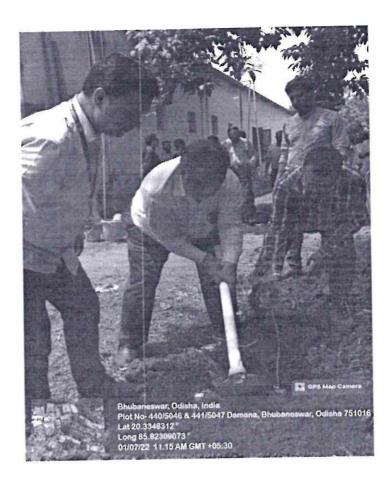
1. All HoDs

2. All Notice Boards(including Hostels)

3. Security Office

Principal

PRINCIPAL



Tree Plantation Program on the occasion of Van Mahotsav on 1st July 2022.



Under the aegis of the Nabadigant Educational Trust

Ref No. CO 58 [AcA] 2025 (5)

Date: 22/09/22

NOTICE

Sub: Tree Plantation Program on the occasion of Gandhi Jayanti.

This is to bring to your kind notice about the upcoming tree plantation drive organized by the NSS Club of our college. On the occasion of Gandhi Jayanti, there will be a tree plantation program at Lane-4, Neeladri Vihar, Bhubaneswar on October 02, 2022.

All the students and staff are requested to join this program to make it a grand success.

Coordinators:

1. Dr. Mamata Mohanty (Civil)

2. Prof. Eepsita Sridevi (EE)

Program Schedule:

Date: 2nd Oct 2022.

Venue: Lane-4, LNeeladri Vihar, Bhubaneswar.

Timing: 11AM onwards.

Copy to:

1. All HoDs

2. All Notice Boards(including Hostels)

3. Security Office.

Principal

PRINCIPA

College of Engineering Bhubaneswar



Tree Plantation Program on the occasion of Gandhi Jayanti on 2nd Oct. 2022.



Under the aegis of the Nabadigant Educational Trust

Ref No. LOEB ACA (2023/134(I)

Date: 12 01 23

NOTICE

Sub: Tree Plantation Program on the occasion of Netaji Jayanti.

This is to bring to your kind notice about the upcoming tree plantation drive organized by the NSS Club of our college. On the occasion of Netaji Jayanti, there will be a tree plantation program at **In front of Traffic Training Institute**, **Chandrasekharpur**, **Bhubaneswar** on January 23, 2023.

All the students and staff are requested to join this program to make it a grand success.

Coordinators:

- 1. Dr. Shanta Mohapatra (MECH)
- 2. Prof. Jagatjyoti Ranjan Das (EE)

Program Schedule:

Date: 23rd Jan 2023.

Venue: In front of Traffic Training Institute, Chandrasekharpur, Bhubaneswar.

Timing: 9:00AM onwards.

Copy to:

1. All HoDs

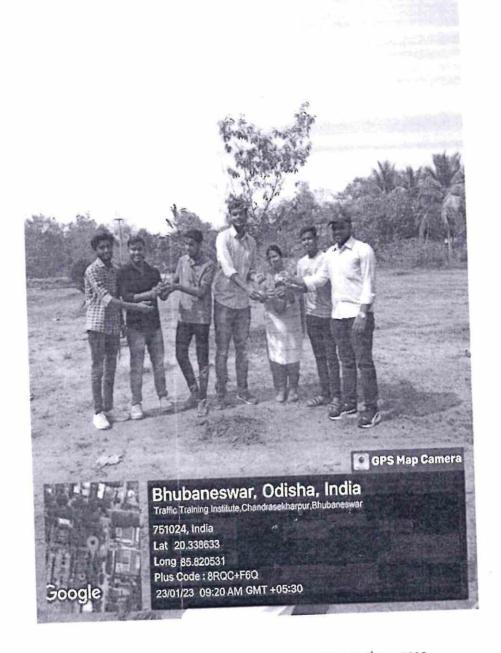
2. All Notice Boards(including Hostels)

3. Security Office

Principal

PRINCIPAL

College of Engineering Bhubaneswar



Tree Plantation Program on the occasion of Netaji Jayanti on 23rd Jan 2023.



Under the aegis of the Nabadigant Educational Trust

Ref No. CO EB/ACA/2023/ASCI)

Date: 21)09/2

NOTICE

Sub: Tree Plantation Program on the occasion of Gandhi Jayanti.

This is to bring to your kind notice about the upcoming tree plantation drive organized by the NSS Club of our college. On the occasion of Gandhi Jayanti, there will be a tree plantation program at Mahavinayakpuram, Lane-1, Kanan Vihar, Patia, Bhubaneswar on October 02, 2023.

All the students and staff are requested to join this program to make it a grand success.

Coordinators:

- 1. Dr. Mamata Mohanty (Civil)
- 2. Prof. Eepsita Sridevi (EE)

Program Schedule:

Date: 2nd Oct 2023.

Venue: Mahavinayakpuram, Lane-1, Kanan Vihar, Patia, Bhubaneswar.

Timing: 9AM onwards.

Copy to:

1. All HoDs

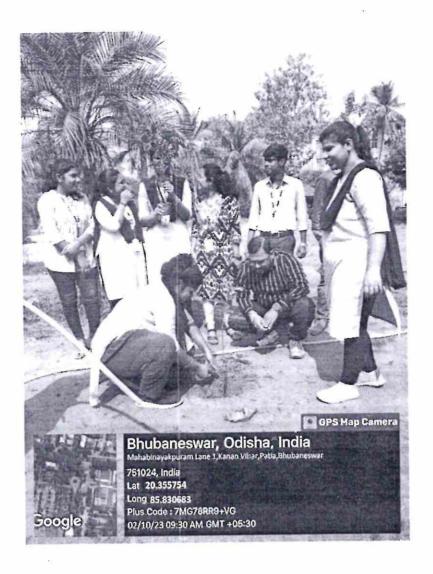
2. All Notice Boards (including Hostels)

3. Security Office.

Principal

PRINCIPAL

College of Engineering Bhubaneswar



Tree Plantation Program on the occasion of Gandhi Jayanti on 2nd Oct. 2023.